

8/5,K/2 (Item 2 from file: 350)  
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014012294 \*\*Image available\*\*

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Fluorescent lamp and discharge lamp for liquid crystal display  
(LCD) back light has outer electrode comprised by spiral conductor  
wound around outside of envelope

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Number of Countries: 006 Number of Patents: 005

Patent Family:

| Patent No     | Kind | Date     | Applicat No   | Kind | Date     | Week     |
|---------------|------|----------|---------------|------|----------|----------|
| WO 200135445  | A1   | 20010517 | WO 2000JP7990 | A    | 20001109 | 200154 B |
| JP 2001143662 | A    | 20010525 | JP 99319986   | A    | 19991110 | 200154   |
| EP 1152454    | A1   | 20011107 | EP 2000974959 | A    | 20001109 | 200168   |
|               |      |          | WO 2000JP7990 | A    | 20001109 |          |
| JP 2002042737 | A    | 20020208 | JP 2000233193 | A    | 20000728 | 200215   |
| KR 2001110337 | A    | 20011213 | KR 2001708656 | A    | 20010709 | 200237   |

Priority Applications (No Type Date): JP 2000233193 A 20000728; JP 99319986  
A 19991110

Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|-----------|------|-----|----|----------|--------------|
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|--------------|----|---|----|-------------|--|
| WO 200135445 | A1 | J | 31 | H01J-065/00 |  |
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Designated States (National): KR US

Designated States (Regional): DE FR NL

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|---------------|---|--|---|-------------|--|
| JP 2001143662 | A |  | 7 | H01J-065/00 |  |
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| EP 1152454 | A1 | E |  | H01J-065/00 | Based on patent WO 200135445 |
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Designated States (Regional): DE FR NL

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|---------------|---|--|----|-------------|--|
| JP 2002042737 | A |  | 12 | H01J-065/00 |  |
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| KR 2001110337 | A |  |  | H01J-061/35 |  |
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Abstract (Basic): WO 200135445 A1

NOVELTY - The lamp has a discharge medium containing xenon gas sealed in a glass tube having a fluorescent material coating on the inner wall surface and sealing elements at the opposite ends. At one end of the glass tube there is an inner electrode, to which a first feed lead wire is connected after air-tightly passing through one of the sealing elements. An outer electrode, consisting of a linear conductor is spirally coiled, along the tube axis direction, on the outer peripheral surface of the glass tube.

DETAILED DESCRIPTION - A second feed lead wire is buried, at one end, in a sealing element and led out at the other end thereof from the glass tube. An end of the outer electrode is electrically connected and mechanically fixed to the second feed lead wire. Additionally, the outer peripheral surfaces of the outer electrode and the glass tube are covered with a translucent resin film whereby the outer electrode is integrally fixed to the outer peripheral surface of the glass tube.

USE - For liquid crystal display back light.

DESCRIPTION OF DRAWING(S) - The figure shows a fluorescent lamp

pp; 31 DwgNo 7/12

Title Terms: FLUORESCENT ; LAMP ; DISCHARGE; LAMP ; LIQUID; CRYSTAL;  
DISPLAY; LCD; BACK; LIGHT; OUTER; ELECTRODE ; COMPRISE; SPIRAL;  
CONDUCTOR; WOUND ; ENVELOPE

Derwent Class: U14; W05; X26

International Patent Class (Main): H01J-061/35; H01J-065/00

File Segment: EPI

Fluorescent lamp and discharge lamp for liquid crystal display  
(LCD) back light has outer electrode comprised by spiral conductor  
wound around outside of envelope

...Inventor: YANO H

Abstract (Basic):

... The **lamp** has a discharge medium containing xenon gas sealed in a glass tube having a **fluorescent** material coating on the inner wall surface and sealing elements at the opposite ends. At one end of the glass tube there is an inner **electrode** , to which a first feed lead wire is connected after air-tightly passing through one of the sealing elements. An outer **electrode** , consisting of a linear conductor is spirally coiled, along the tube axis direction, on the...

... out at the other end thereof from the glass tube. An end of the outer **electrode** is electrically connected and mechanically fixed to the second feed lead wire. Additionally, the outer peripheral surfaces of the outer **electrode** and the glass tube are covered with a translucent resin film whereby the outer **electrode** is integrally fixed to the outer peripheral surface of the glass tube...

...The figure shows a **fluorescent lamp** .

Title Terms: **FLUORESCENT** ;